

Excerpts from 180 NAC 15 for Veterinary Facilities

EFFECTIVE DATE NEBRASKA HEALTH AND HUMAN SERVICES
APRIL 12, 2003 REGULATION AND LICENSURE 180 NAC 15

TITLE 180 CONTROL OF RADIATION

CHAPTER 15 TRAINING AND EXPERIENCE REQUIRMENTS FOR USE OF RADIATION
SOURCES

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TITLE 180 CONTROL OF RADIATION

CHAPTER 15 TRAINING AND EXPERIENCE REQUIREMENTS FOR USE OF
RADIATION SOURCES

15-001 SCOPE AND AUTHORITY

15-001.01 180 NAC 15 establishes the training and experience requirements of personnel in 180 NAC 3, 5, 6, 8, 9 and 12.

15-001.02 It establishes the criteria which courses of instruction must possess prior to being approved by the Agency for the certification training programs.

15-001.03 The regulations are authorized by and implement the Nebraska Radiation Control Act, Neb. Stat. Rev. §§ 71-3501 to 3519.

15-002 DEFINITIONS: As used in 180 NAC 15, the following definitions apply.

Experience means active participation in events or activities, leading to accumulation of knowledge.

Formal Training means training or education, including either didactic or clinical practicum or both, which has a specified objective, planned activities for students, and suitable methods for measuring student attainment, and which is offered, sponsored, or approved by an organization or institution which is able to meet or enforce these criteria.

15-011 RECENTNESS OF TRAINING: The training and experience specified in 180 NAC 15 must have been obtained within the seven years preceding the date of application or the individual must have had related continuing education and experience since the required training and experience was completed.

15-013 MINIMUM QUALIFICATIONS FOR RADIOLOGICAL MEDICAL PHYSICIST, RADIOLOGICAL HEALTH PHYSICIST AND QUALIFIED EXPERT

15-013.03 Qualified Expert means an individual who has demonstrated to the satisfaction of the Agency that he/she possesses the knowledge and training to measure ionizing radiation, to evaluate safety techniques, and to advise regarding radiation protection needs. This person must have at least the following:

1. A Bachelor's Degree in a physical or natural science, and one year of experience in radiation protection and measurements, or
2. A Certificate or an Associate Degree from an accredited radiological technology school and one year of experience in radiation protection and measurements.

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**15-024 MINIMUM TRAINING REQUIREMENTS FOR OPERATORS OF NON HUMAN X-RAYS
OR PARTICLE ACCELERATORS UNDER 1 MeV**

15-024.01 The registrant must require that the operator receives a minimum of eight hours of instruction in the following areas:

1. Fundamentals of Radiation Safety.
 - a. Characteristics of radiation
 - b. Units of radiation measurement
 - c. Significance of radiation dose and exposure
 - (1) Radiation protection standards
 - (2) Biological effects of radiation
 - d. Sources and levels of radiation
 - e. Methods of controlling radiation dose
 - (1) Working time
 - (2) Working distances
 - (3) Shielding
2. Radiation Detection Instrumentation to be Used.
 - a. Use of radiation survey instruments
 - (1) Operation
 - (2) Calibration
 - (3) Limitations
 - b. Survey techniques
 - c. Use of personnel dosimeters
 - (1) Film badges
 - (2) Thermoluminescent dosimeters
 - (3) Pocket dosimeters
 - (4) Optically stimulated luminescent dosimeter
3. Radiographic Equipment to be Used.
 - a. Remote handling equipment
 - b. Radiographic exposure devices and sealed sources
 - c. Operation and control of x-ray equipment
4. The Requirements of Pertinent Federal and State Regulations.
5. The Registrant's Written Operating and Emergency Procedures.

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6. Case Histories of Radiography Accidents.

Training must begin within 30 days after employment and must be completed no later than 90 days after date of employment. The registrant must maintain a record of all training for each operator. Such record must be made available for Agency inspection.

15-033 TRAINING AND EXPERIENCE REQUIREMENTS FOR INSTALLATION AND/OR
SERVICING OF RADIATION GENERATING EQUIPMENT AND ASSOCIATED RADIATION
GENERATING EQUIPMENT AS SUPPLIED BY THE EMPLOYER

15-033.01 A minimum of eight hours of formal course work or as approved by the Agency should be completed and include the following:

1. Radiation physics and instrumentation
2. Radiation protection
3. Mathematics pertaining to the use and measurement of radioactivity
4. Biological effects of radiation

15-033.02 On-the-job training should include hands-on experience installing and/or servicing radiation generating equipment and associated radiation generating equipment components. On-the-job training must be for six months under the supervision of an individual who has completed the training in 180 NAC 15-033.

15-034 TRAINING AND EXPERIENCE REQUIREMENTS FOR PERSONNEL DOSIMETRY
SERVICES PERSONNEL

15-034.01 Personnel must work for a dosimetry processor who holds a current personnel dosimetry accreditation from the National Voluntary Laboratory Accreditation Program (NVLAP) of the National Institute of Standards and Technology (NIST).